

ABSTRACT OF THE DISCLOSURE

A method for preventing net update oscillation of a bus bridge by competing net update messages, includes the steps of

(a) determining whether a particular portal is a coordinator on its local bus; and proceeding to step (b) (i) if said particular portal is a coordinator, otherwise, proceeding to step (b) (ii);

(b) (i) determining whether said particular portal finds a net update collision on its local bus; and proceeding to step (c) if the net update collision is found; (b)(ii) determining whether the particular portal receives an UPDATE_ROUTE message from another portal that is a coordinator on the local bus; and proceeding to step (c) if the UPDATE_ROUTE message is received;

(c) setting a global net_update bit to one by a lock procedure;

(d) verifying whether the lock procedure in step (c) has been successfully performed by determining whether the net_update bit has been set to one; (e) performing one of: (i) discarding the net update if it has been determined in step (d) that the lock procedure in step (c) has not been successfully performed; and

(ii) processing the net update according to IEEE1394.1 bridge standard and setting the net_update bit to zero.